DERWENT-ACC-NO: 1989-091663

DERWENT-WEEK: 198912

TITLE: Engobe for ceramic decorative bricks mfr. -
contains

                         enriched bentonite, and **glass cullet** contg.

oxide(s) of

                         silicon, titanium, calcium, sodium, potassium

and cerium

INVENTOR: BREL, S S; SHUBIN, M I

PATENT-ASSIGNEE: MINSK CONS MAT RES[MICSR]

PRIORITY-DATA: 1986SU-3999607 (January 2, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
SU 1423548 A	September 15, 1988	N/A
004	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
SU 1423548A	N/A	1986SU-3999607
January 2, 1986		

INT-CL (IPC): C04B041/86

ABSTRACTED-PUB-NO: SU 1423548A

BASIC-ABSTRACT:

The engobe contains (in wt. %)**: glass cullet** 85.5-90 and bentonite
10-14.5.
The **glass cullet** contains (in wt. %): SiO_2 70.92-74.6, TiO_2 0.75-0.9,
CaO
6.26-8.4, Na_2O 15.2-16.28, K_2O 2.33-2.5 and CeO_2 0.8-1. Bentonite
contains (in
wt. %): SiO_2 67.55, Al_2O_3 12.37, Fe_2O_3 1.53, TiO_2 0.15, CaO 4.12, MgO
2.37, SO_3
0.25, Na_2O 0.62, K_2O 1.09 and calcination loss 9.95.

The mixt. is sprayed on the article, dried for 48 hrs. at 80 deg.

C. and
fired for 2 hrs. at 1020 deg. C. to yield a white, 50-500 microns
layer
withstanding 170 freezing cycles, of strength 2.6-3.2 MPa, absorbing
0-0.2%
water.

USE/ADVANTAGE - In building materials industry. Frost resistance of
the engobe
is increased from 18-30 to 170 cycles, adhesion to fired brick from
0.5-0.9 to
2.6-3.3 MPa, and water absorption reduced from 2.6-5.8 to 0-0.2%.
Bul.34/15.9.88.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ENGOBE CERAMIC DECORATE BRICK MANUFACTURE CONTAIN ENRICH
BENTONITE
                GLASS CULLET CONTAIN OXIDE SILICON TITANIUM CALCIUM
SODIUM
                POTASSIUM CERIUM

DERWENT-CLASS: L01

CPI-CODES: L01-A01B; L01-A03C; L01-A05; L02-B06; L02-D14C;

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